PROJECT DESCRIPTION

<u>GENERAL</u>

THIS PORTION OF THE PROJECT INVOLVES THE FULL RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL WITH LED SIGNAL HEADS, ACCESSIBLE PEDESTRIAN SIGNALS (APS), AND LED COUNTDOWN PEDESTRIAN SIGNALS (CPS) AT THE INTERSECTION OF MD 355 (ROCKVILLE PIKE) AND DODGE STREET/ RICHARD MONTGOMERY DRIVE IN MONTGOMERY COUNTY.

MD 355 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FIVE-PHASE, FULLY-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING FOR NORTHBOUND MD 355. THE MAINLINE AND ALTERNATIVE SIDE STREET PEDESTRIAN PHASES AND EASTBOUND CONCURRENT RIGHT TURN PHASE WILL REMAIN.

CONTROLLER REQUIREMENTS

INSTALL A NEW EIGHT-PHASE FULLY ACTUATED TRAFFIC SIGNAL ASC III CONTROLLER AND ASSOCIATED HARNESSES IN A NEMA SIZE 'S' BASE MOUNTED CABINET. THE MONTGOMERY COUNTY SIGNAL SHOP WILL INSTALL ONE (1) 2 WIRE CENTRAL CONTROL UNIT, ONE (1) VIDEO DETECTION INTERFACE EQUIPMENT, AND ALL OTHER ASSOCIATED EQUIPMENT AND HARNESSES WITHIN THE CABINET.

APS WILL FUNCTION AS FOLLOWS:

TO CROSS MD 355 (ROCKVILLE PIKE) AT DODGE STREET:

A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE WAIT TO CROSS ROCKVILLE AT DODGE, WAIT".

B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

TO CROSS MD 355 (ROCKVILLE PIKE) AT RICHARD MONTGOMERY DRIVE:

PEPCO #UNKNOWN ==

A,D,E,F,G,K,S,T,-

U,V,aa,bb,

A,S,da—

EX. U/G I/C NORTH +

cc,dd,gg,mm

A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE WAIT TO CROSS ROCKVILLE AT RICHARD MONTGOMERY, WAIT'.

B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

TO CROSS RICHARD MONTGOMERY DRIVE AT MD 355 (ROCKVILLE PIKE): A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME. THE PUSHBUTTON MESSAGE WILL BE WAIT TO CROSS

RICHARD MONTGOMERY AT ROCKVILLE, WAIT".

B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

TO CROSS DODGE STREET AT MD 355 (ROCKVILLE PIKE):

A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS DODGE AT ROCKVILLE, WAIT'.

A,B,C,D,E,F,G,H,J,K, O,P,Q,R,S,T,U,V—, _— A,X,Y,Z,aa,bb,cc,

A,B,C,D,E,F,G,K,

R,S,T,U,V,Z,aa,bb,

cc,dd,gg,hh,mm

WIRING DIAGRAM

- A, T, bb, mm

_A,T,bb

-F,G,gg

A,U,dd—

B. WHEN THE 'WALK' PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

Ms. Anyesha Mookherjee Assistant District Engineer - Traffic Phone: 301-513-7498

Mr. Victor Grafton District Utility Engineer Phone: 301-513-7350

Mr. Thomas Fountain Assistant District Engineer - Maintenance Phone: 301-513-7304

OFFICE OF TRAFFIC AND SAFETY:

Ms. Corren Johnson Chief, Traffic Operations Division Phone: 410-787-7630

VA-CANT

Assistant Division Chief, Traffic Operations 410-787-7630

Mr. Edward Rodenhizer Chief Signal Operations Phone: 410-787-7650

Mr.Eugene Bailey Chief Sign Operations 410-787-7670

MONTGOMERY COUNTY:

Mr. Kamal Hamud Traffic Engineering 240-777-8761

The Power Company Is:

Ms. Cheryl Hunt 201 W. Gude Drive Rockville, MD 20850 Phone: 301-548-4329

PEPCO #759454-0205

EX. U/G I/C WEST TO FLEET ST

EX. O/H I/C SOUTH

TO WOOTTON PKWY

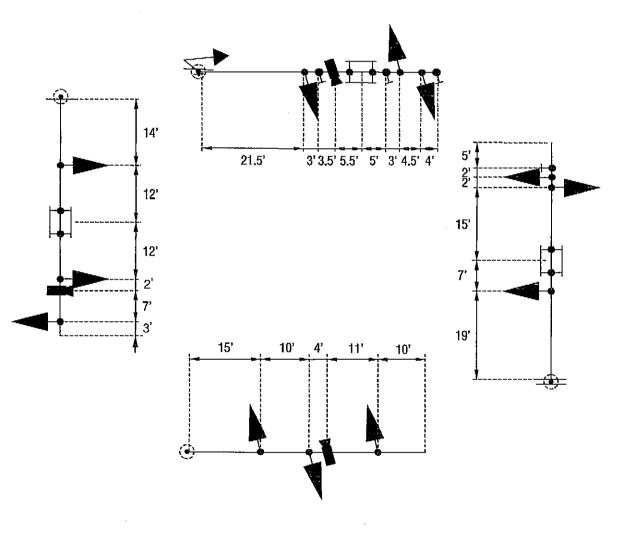
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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
	R V V G	(R) (Y) Y (G) G	RYG	RYG	RYG	RYG	RYG	(R) Y) G	R Y Y G G		$\mathbb{R} \supset \mathcal{G}$	RYG	(RYG)									
PHASE 2 AND 5	+G⁄G	+G⁄G	G	R	R	R	R	R	R⁄G→	R∕G→	R	R	R	DW	wĸ	WK	DW	DW	DW	DW	DW	\$\frac{1}{2} \cdot \frac{1}{2}
PHASE 5 CHANGE	+γ⁄G	+Y⁄G	G	R	R	R	R	R	R⁄Y→	R∕Y→	R	R	R	DW	wĸ	WK	DW	DW	DW	DW	DW	1 Q ()
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	R	wĸ	WK	WK	wĸ	DW	DW	DW	DW	49₽
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL⁄DW	DW	DW	DW	DW	√H
PHASE 2 AND 6 CHANGE	Y	Υ	Υ	Υ	Υ	Υ	R	R	R	R	R	R	R	DW	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	G	DW	4							
PHASE 4 AND 8 CHANGE	R	R	R	R	R	R	Υ	Υ	Υ	Υ	Υ	Υ	Υ	DW	DW	DŴ	DW	DW	DW	DW	DW]
PHASE 4 AND 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	G	DW	DW	DW	DW	wĸ	wĸ	WK	wĸ	° Д°, ⊦
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	G	DW	DW	DW	DW	FL⁄DW	FL/DW	FL/DW	FL⁄DW	1
PHASE 4 AND 8 ALT CHANGE	R	R	Ŗ	R	R	R	γ	γ	γ	Υ	Υ	Υ	Υ	DW	} \\ \\							
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL∕Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	ф Д							

PHASE CHART

PAVEMENT MARKING LAYOUT - I"=20' MD 355 (ROCKVILLE PIKE) MD 355_ (ROCKVILLE PIKE) SBR

PROPOSED SIGNAL EQUIPMENT AND

MAST ARM DETAILS



STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

MD 355 (ROCKVILLE PIKE) AT DODGE STREET / RICHARD MONTGOMERY DRIVE

GENERAL	INFORMATION	SHEET

ROCKVILLE, MD

	SCALE <u>NONE</u>	ADVERTISED DATE_	10/2013 (CONTRACT NO	MO1315477
		SKG OF STV	·	MONTGO	
1	DRAWN BY	SKG OF STV	LOGMILE	150355	609.05
	CHECKED BY	SDY OF STV	TIMS NO	L76	55
	F.A.P. NO		TOD NO		
	·	<u> </u>			
	TS NO. 49C-GI	DRAWING SG-0	2 OF 05	SHEET NO.	OF

EXISTING GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH STV Incorporated 7125 Ambassador Road, Suite 200 Baltimore, MD 21244 www.stvinc.com

A NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

CH ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

NT ELECTRICAL CABLE - 5 OU CONDUCTOR (NO. 14 AWG)

Y GG ELECTRICAL CABLE - 2 Z dd CONDUCTOR (NO. 14 AWG)

ff VIDEO DETECTION CAMERA LEAD-IN CABLE

LELECTRICAL CABLE - I CONDUCTOR NO. 8 AWG-THHN/THWN

PROPOSED GROUND ROD - 3, .
DIAMETER X 10 FOOT LENGTH

mm | 12-PAIR COMMUNICATION CABLE, JELLY-FILLED/UNDERGROUND

PROPOSED UNDERGROUND POWER SERVICE
PPS I-CONDUCTOR ELECTRICAL CABLE, NO. 2/0
AWG/THHN

PROPOSED GROUND ROD - 3/4 INCH

LOTTED: Monday, October 07, 2013 AT 07:58 AM FILE: I:\PROJECTS\4014219\4014219_0013\Drawings\TRA\pSG=N000_md355_at_dodge.dgn